

RUDIS, M.A. (Voronezh)

Design of rotating toroidal shells. Izv. AN SSSR. Otd. tekhn. nauk...
Mekh. i mashinostr. no. 5:90-95 S.O. '61. (MIRA 14:9)
(Elastic plates and shells)

S/179/61/000/005/012/022
E081/E477

AUTHOR: Rudis, M.A. (Voronezh)

TITLE: Calculations of rotating toroidal casings

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye
tekhnicheskikh nauk. Mekhanika i mashinostroyeniye.
no.5, 1961, 90-95

TEXT: Rotating casings of toroidal shape are used in several types of machines; the casings are filled with a fluid and, when operating, the inherent centrifugal forces of the casings are supplemented by those of the fluid. The paper deals with the forces acting on such a rotating casing, and supplements the work of previous authors; it also deals with comparatively simple formulas for establishing the maximum forces to which toroidal shaped casings may be subjected. In the example quoted in the text, a casing is subjected to a normal pressure, which varies with the radius, according to parabolic law. The differential equation covering the various stresses in the casing is established and is solved by a complex variable method. The effect on the solution of varying boundary conditions of the casing is also investigated. By using the solution, sundry formulae, dealing with meridional

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Calculations of rotating ...

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bending moments and axial and circumferential stresses, are presented. Two examples are included showing application of the solution and formulae are found for the maximum stresses to which the casing may be subjected. There are 1 figure and 10 references: 7 Soviet-bloc and 3 non-Soviet-bloc. The reference to an English language publication reads as follows:
Ref.9: Tables of the Modified Hankel Functions of Order one-third and their Derivatives. The Annals of the Computation Laboratory of Harvard University, 1945, v.2.

SUBMITTED: November 22, 1960

Card 2/2

RUDIS, M.A., kand.tekhn.nauk

Strength and ridigity of ring packings. Vest. mash. 41 no.6:30-34
Je '61. (MIRA 14:6)

(Packing (Mechanical engineering))

RUDIS, M. A., Cand Tech Sci -- (diss) "Research into the stressed condition and calculation for the durability of spiral casings of mining centrifugal pumps." Moscow, 1960. 16 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Mining Inst im I. V. Stalin); 170 copies; free; (KL, 25-60, 134)

W. 11. 1961, 1962

Improving the quality of solidified rare oil by preesterification.
Erwin Pouravin 15.11.84.19613 - 14.

1. Institute of Oil and Gas Technology, Ludwig-Maximilians-Universität, Munich, Germany.
15.11.84.19613 - 14.

STRAUTMAN, F.I.; RUDISHIN, M.P.

~~_____~~
Distribution of the woodpecker species *Dendrocopus syriacus* in the
southwestern provinces of the Ukraine. *Nauk.zap.L'viv.nauk.pryrod.*
muz. AN URSR 3:117-119 '54. (MLRA 8:5)
(Ukraine--Woodpeckers)

RUDISHIN, M.P.

Distribution of muskrats in the Shack lake region. Nauk.zap.L'viv.nauk.
pryrod.muz.AN URSR 4:92-96 '55. (MIRA 9:9)
(Velyn Province--Muskrats)

RUDISHIN, Mikhail Petrovich; STRAUTMAN, F.I., doktor biolog.nauk,
otv.red.; BRAGINSKIY, L.P. [Brahins'kyi, L.P.], red.izd-va;
KORMILO, M.T. [Kormylo, M.T.], tekhn.red.

[Distribution and population dynamics of murine rodents
in the western forest-steppe of the Ukraine] Rozmishchennia
i dynamika chyssel'nosti myshovydykh hryzuniv u zakhidnomu
lisostepu Ukrainsk'koi RSR. Kyiv, Vyd-vo Akad.nauk URSR, 1958.
26 p. (MIRA 12:7)

(Ukraine, Western—Rodentia)

RUDISOVA-SACHLOVA, B.

Joseph Carl Eduard Moser and the Society of the National Museum. p. 29.
(CASOPIS; ODDIL PŘÍRODOVEDNY, Vol. 126, No. 1, 1957. Praha, Czechoslovakia)

EO: Monthly List of East European Accessions (REAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

AKHVERDOV, I., doktor tekhn. nauk; SHAPIRO, Ya., kand. tekhn. nauk;
RUDITSER, R., inzh.

Manufacturing three-dimensional prefabricated room units by a
method of concreting on a horizontal stand. Zhil. stroi. no.1:
7-10 '64. (MIRA 18:11)

1. Chlen-korrespondent AN BSSR (for Akhverdov).

BOGOMOLOV, K. S., RAZORENOVA, I. F., RUDITSKAYA, I. A. and SIROTINSKAYA, A. A.
Sci. Res. Inst. Cinephotography.

"Methodes d'accroissement de Sensibilite des Emulsions Nucleares Irradiees
Aux Temperatures Basses."

paper presented at the Second Intl. Colloquium on Corpuscular Photography.
Montreal, 21 Aug - 7 Sep 1958.

Encl: B-3,114,647

20995

S/058/61/000/005/003/050
A001/A101

21.5200
AUTHORS:

Bogomolov, K.S., Ruditskaya, I.A., Razorenova, I.F., Sirotinskaya, A.A., Dobroserdova, Ye.P.

TITLE:

Hypersensitization of nuclear photoemulsions

PERIODICAL:

Referativnyy zhurnal. Fizika, no 5, 1961, 69-70, abstract 5B176
("Tr. Vses. n.-i. kinofotoin-ta", 1959, no 32, 5 - 18)

TEXT:

A number of theoretical and practical problems connected with the employment of triethanolamine for hypersensitization of nuclear emulsions are investigated. Optimum conditions are selected for dipping of plates of the P (R) type in triethanolamine; it is shown that some growth of fog can be easily eliminated by the subsequent underdevelopment. The high sensitivity attained drops noticeably in the storing process, and this restricts the employment of emulsions dipped in triethanolamine for lasting experiments, e.g. for studying cosmic rays. The treatment with triethanolamine after exposure yields no results. Other alkali solutions affect the sensitivity considerably less than triethanolamine at the same pH 9 as the latter. Introduction of triethanolamine prior to coating fogs conventional R-type emulsions; however, using undermatured emulsions one

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20995

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Hypersensitization of nuclear photoemulsions

S/058/61/000/005/003/050
A001/A101

can attain rather high sensitivity by introducing triethanolamine prior to coating, but in this case the quantity of triethanolamine needed is much greater than for dipping. The washing out of triethanolamine from the emulsion prior to exposure reduces sensitivity almost to the initial level. The employment of mono- and diethanolamines is less efficient than that of triethanolamine. To explain the effect of triethanolamine, the authors hold that it is necessary to ascribe to it, in addition to its inherent reducing and alkaline properties, the ability of transferring radiation energy, absorbed in gelatine, to emulsion crystals. To prove the existence of this ability, special experiments were carried out in which emulsions were exposed to ultraviolet rays through a gelatine film absorbing them completely.

A. Kartuzhanskiy

[Abstracter's note: Complete translation.]

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10/91

S/058/61/000/005/005/050
A001/A101

21.5201

AUTHORS:

Bogomolov, K.S., Razorenova, I.P., Ruditskaya, I.A., Sirotinskaya, A.A.

TITLE:

Raising sensitivity of nuclear photoemulsions at low temperatures as a result of hypersensitization

PERIODICAL:

Referativnyy zhurnal. Fizika, no 5, 1961, 70, abstract 5B178 ("Tr. Vses. n.-i. kinofotoin-ta", 1959, no 32, 26 - 28)

TEXT:

Degree of sensitivity to minimum ionization particles preserved at temperatures -186°C and -252°C was investigated in the following types of R emulsions: conventional (I), hypersensitized by triethanolamine (II), special iodine-free emulsion prior to hypersensitization (III) and the same after hypersensitization (IV). The degree of sensitivity preservation at -186°C proved to be $\sim 70\%$ in (I), $\sim 50\%$ in (II), $\sim 70\%$ in (III); the density of tracks was $\sim 20-25$ in (I) and (III) and $40-50$ grains/ 100μ in (II). At -252°C sensitivity is completely absent in (I); in (II) it preserved by $\sim 40\%$, in (III) by $\sim 70\%$, and in (IV) by

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Raising sensitivity of nuclear photoemulsions ...

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A001/A001

~80%; the track density amounted to ~25 - 30 in (II), ~20-25 in (III) and to ~50 (in one case 76) grains/100 μ in (IV). Fog amounted to 1.4 in (I) and (III) and 2.5 grains/100 μ^2 in (II) and (IV).

A. Kartuzhanskiy

[Abstracter's note: Complete translation.]

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S/081/61/000/022/055/076
B101/B147

AUTHORS: Bogomolov, K. S., Ruditskaya, I. A., Razorenova, I. F.,
Sirotinskaya, A. A., Dobroserdova, Ye. P.

TITLE: Hypersensitization of nuclear photoemulsions

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 22, 1961, 381, abstract
22L336 (Tr. Vses. n.-i. kinofotoin-ta, no. 32, 1959, 5 - 18)

TEXT: A method of hypersensitizing various types of nuclear emulsion layers by means of triethanolamine (TEA) solutions is described. When studying the sensitizing effect of TEA it was found that TEA mainly influences the formation of the latent image, while its influence on the development process is unimportant. The effect of TEA is assumed to be connected with the gelatin structure of the emulsion layer which is definitely formed after the layer has dried. Results were obtained which prove that if TEA is present in the layer that energy can be partially utilized in the photographic process which has been absorbed by the gelatin layer. [Abstracter's note: Complete translation.]

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BOGOMOLOVA, K.S.; RAZORENOVA, I.F.; RUDITSEAYA, I.A.; SIROTINSKAYA, A.A.

Sensitivity of hypersensitized nuclear photographic emulsions
at the liquid hydrogen temperature. Zhur. nauch. i prikl. fot.
i kin. 3 no.5:380-381 S-O '58. (MIRA 11:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut.
(Photographic sensitometry)

BOGOMOLOV, K.S.; RUDITSKAYA, I.A.; SIROTINSKAYA, A.A.

Hypersensitization of nuclear emulsions by the use of triethanolamine.
Zhur. nauch. i prikl. fot. i kin. 3 no.1:52-53 Ja-F '58.
(MIRA 11:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy kino-fotoinstitut,
(Photographic emulsions)
(Ethanol)

SCV-77-3-5-12/21

AUTHORS: Bogomolov, K.S.; Razorenova, I.F.; Ruditskaya, I.A.;
Sirovinskaya, A.A.

TITLE: The Sensitivity of Hypersensitized Nuclear Photographic
Emulsions at the Temperature of Liquid Hydrogen (Chuvst-
vitel'nost' gipersensibilizirovannykh yadernykh fotografi-
checkikh emul'siy pri temperature zhidkogo vodoroda)

PERIODICAL: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii,
1958, Vol 3, Nr 5, pp 380-381 (USSR)

ABSTRACT: Backingless "P" films with iodide, and others without iodide,
sensitized in a 3% solution of triethanolamine, were exposed
in liquid hydrogen to gamma-radiation at 250 mev or to a beam
of Pi-mesons at 300 mev. The results are drawn up in tabular
form. The trajectories of the relativistic particles, at
the temperature of liquid hydrogen, can be traced in the form
of very dense tracks on the hypersensitized, iodine-less "P"
silver bromide nuclear emulsions. A significant drop in the
sensitivity of the emulsions containing iodide at liquid
hydrogen temperature can be confirmed from the table. There
is 1 table and 2 Soviet references.

Card 1/2

SOV-77-3-5-12/21

The Sensitivity of Hypersensitized Nuclear Photographic Emulsions at the Temperature of Liquid Hydrogen

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut
(The All-Union Research Institute into Photography and Cinematography)

SUBMITTED: May 28, 1958

1. Photographic emulsions--Sensitivity 2. Photographic emulsions
--Applications 3. Gamma rays--Photochemical effects 4. Hydrogen
(Liquid)--Applications

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Autoplastic transplantation of endocrine glands. I. transplantation of preserved adrenal and testis. <u>N. G.</u> Rudits'kiy. <u>Mys. expl.</u> (Ukraine) 1938, No. 1, 21-37. Description of morphological changes following subcu- taneous transplantation into patients of glands removed from fresh cadavers. S. A. Corson																																																			
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The preservation of the oxidoreducing power of preserved suprarenal capsule. M. G. Rudits'kii and E. I. Lipovetskaya. <i>Med. ekspt.</i> (Ukraine) 1940, 44-50; <i>Chem. Zentr.</i> 1941, I, 388. -- Expts. are reported on the preserving of suprarenal capsule with glucose soln., Ringer-Locke soln., Ringer-Locke soln. with glucose, and solns. of serum, citrate plasma and vaseline. Only with the last 2 solns. was the oxidoreducing power of the prepn. retained. M. G. Moore																			
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RUDITSKIY, M. G.

Ruditskiy, M. G. - "Twenty-five years of research in the field of hemo-transplantation,"
In the symposium: V. N. Shamov, Kiev, 1949, p. 243-48

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949)

CHUMAKOV, I.I.; RUDITSKIY, M.G., professor, zaveduyushchiy.

Metastasizing adenoma of the thyroid gland. Klin.med. 31 no.3:48-52 Mr
'53. (MLBA 6:5)

1. Fakul'tetskaya khirurgicheskaya klinika Kurskogo meditsinskogo instituta.
(Thyroid gland--Tumors)

USSR / Human and Animal Physiology. Internal Secretion. T
The Thyroid Gland.

Abs Jour: Ref Zhur-Biol., No 22, 1958, 102019.

Author : Ruditskiy, M. G.; Chumakov, I. M.
Inst : Kursk Medical Institute.
Title : On the Problem of Malignant Goiter.

Orig Pub: Sb. tr. Kurskogo med. in-ta, 1954, No 1, 98-107.

Abstract: No abstract.

Card 1/1

RUDITSKIY, M.G.; CHUMAKOV, I.I.

[Basedow's disease] Bazedova bolezni'. Kursk, Kurskoe knizhnoe
izd-vo, 1957. 41 p. (MIRA 11:4)
(GRAVES' DISEASE)

RUDITSKIY, M.G., prof.; CHUMAKOV, I.I., assistant

Surgical treatment of thyrotoxic goiter [with summary in English].
Khirurgiia 33 no.6:38-42 Je '57. (MIRA 10:12)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - prof. M.G.Ruditskiy) Kurskogo meditsinskogo instituta (dir. - prof. A.V.Savel'yev)
(HYPERTHYROIDISM, surg.
indic. & statist.)

RUDITSKY, M.G.; BELOGLYADOVA, N.

Criteria of the take of a free transplant. Acta chir. plast. 4 no.3:
172-180 '62.

1. University Surgical Clinic, Medical Institute, Kursk (U.S.S.R.)
Director: Prof. M.G.Ruditsky, M.D.
(TRANSPLANTATION) (SKIN TRANSPLANTATION)

RUDITSKIY, M.G.; KOMARDINA, G.A.

Errors in the diagnosis of gastric cancer. Vop.onk. 7 no.11:
95-99 '61. (MIRA 15:5)

1. Iz Kurskogo oblastnogo onkologicheskogo dispansera (glav.
vrach. - T.S. Kondrashova) i fakul'tetskoy khirurgicheskoy
kliniki (zav. - prof. M.G. Rudnitskiy) Kurskogo gosudarst-
vennogo meditsinskogo instituta.
(STOMACH--CANCER)

RUDITSKIY, M.G.

Some main points in the problem of transplantation of organs and
tissues. Khirurgiia 35 no.8:118-121 Ag '59. (MIRA 13:12)
(TRANSPLANTATION OF ORGANS, TISSUES, ETC.)

RUDITSKIY, M.G.

Endocrine glands as the test objects in studying the problem of
organ and tissue transplantation. Probl. endok. i gorm. 6
no. 4:8-13 J1-Ag '60. (MIRA 14:1)

(ENDOCRINE GLANDS—TRANSPLANTATION)
(TRANSPLANTATION OF TISSUES, ORGANS, ETC.)

RUITSKIY, M. G., (Prof.), and VOLCHKOV, A. V., -- Kursk

"The Importance of Angiography for Diagnosing Bony Tumors."

Report submitted for the 27th Congress of Surgeons of the USSR,
Moscow, 23-28 May 1960.

14(10)

PHASE I BOOK EXPLOITATION

SOV/2045

Ruditsyn, M. N., P. Ya. Artemov, and M. I. Lyuboshits

Spravochnoye posobiye po soprotivleniyu materialov (Handbook on the Strength of Materials) Minsk, Gos. Izd-vo BSSR, 1958. 508 p. Errata slip inserted. 20,000 copies printed.

Ed. (Title page): M. N. Ruditsyn; Ed. (Inside book): I. Chernyak; Tech. Ed.: N. Stepanova.

PURPOSE: The handbook is intended for design and manufacturing departments of machine-building plants and for students of technical schools.

COVERAGE: The book presents basic principles, working formulas, charts, and tables. It includes information on deformations and stresses in tension, compression, bending, torsion, and shearing, as well as on designs of beams, thick-walled cylinders, and thin-walled columns with open cross sections. The stability of elastic systems, the design of statically indeterminate systems, and elasto-plastic bending and torsion are discussed. Cyclical stresses and dynamic loading are explained. Data on the mechanical

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Handbook on the Strength of Materials

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properties of materials are presented. The use of formulas and tables is illustrated by examples. The author thanks A. F. Anishchenko, Candidate of Technical Sciences. There are 38 Soviet references.

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AVAILABLE: Library of Congress

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GO/fal
8-20-59

RUDITSYN, M.N., dotsent, kand.tekhn.nauk

Methods of conducting examinations and tests. Sbor. metod. rab.
Bel. politekh. inst. no. 1:11-23 '59. (MIRA 14:1)
(Examinations)

RUDITSYN, M.N., dotsent, kand.tekhn.nauk

Methods of practical study. Sbor. metod. rab. Bel. politekh.
inst. no. 1:31-40 '59. (MIRA 14:1)
(Technical education)

HUDITSYN, M.N.; KAPRANOVA, N., tekhnred.

[Strength of materials] Soprotivlenie materialov; vvodnaia
lektsiia. Minsk, Redaktsionno-izdatel'skii otдел BPI im. I.V.
Stalina, 1958. 26 p. (MIRA 13:7)
(Strength of materials)

14(10)

PHASE O BOOK EXPLOITATION

SOV/3042

Artemov, P. Ya., M.I. Lyuboshits, and M.N. Ruditsyn

Raschet tonkostennykh sterzhney otkrytogo profilya (Analysis of Thin-Walled Bars With Open Cross Section) Minsk, Red.-izd-vo otdel BPI imeni I.V. Stalina, 1959. 138 p. Errata slip inserted. 3,000 copies printed.

Sponsoring Agency: Belorusskiy politekhnicheskiy institut. Kafedra "Soprotivleniye materialov."

Ed. (Title page): M.N. Ruditsyn; Ed.: G.A. Kuz'michenko; Tech. Ed.: Ye.I. Yarish.

PURPOSE: This textbook is intended for students in advanced courses on the strength of materials.

COVERAGE: This book presents in concise form the theory of stresses in thin-walled bars with open cross sections as well as the procedures used in stress and stability analysis. Included are cases of constrained torsion, bending torsion, and the eccentric application of longitudinal forces. A

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Analysis of Thin-Walled Bars (Cont.)

SOV.3042

number of calculation examples are presented to illustrate the application of the theory to particular problems. The authors thank Professor A.A. Kravtsov and Docents V.M. Shirshov and A.A. Cheche. There are 12 Soviet references.

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Analysis of Thin-Walled Bars (Cont.)

SOV/3042

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Analysis of Thin-Walled Bars (Cont.)

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AC/gmp
2-26-60

ARTEMOV, P.Ya.; LYUBOSHITS, M.I.; RUDITSYN, M.N.; KUZ'MICHENKO, G.A.,
red.; YARISH, Ye.I., tekhn.red.

[Calculation of thin-walled open beams] Raschet tonkostennykh
sterzhnei otkrytogo profil'a. Pod obshchei red. M.N.Ruditsyna.
Minsk, Red.-izd.otdel BPI im. I.V.Stalina, 1959. 138 p.

(MIRA 12:8)

(Girders)

PHASE I BOOK EXPLOITATION

784

Ruditsyn, Mikhail Nikolayevich

Raschetno-graficheskiye raboty po soprotivleniyu materialov (Computation and Graphic Work on Strength of Materials) Minsk, Izd-vo Belorusskogo gos. univ-ta, 1957. 227 p. 9,000 copies printed.

Sponsoring Agencies: Belorusskiy politekhnicheskiy institut, and Ministerstvo vysshego obrazovaniya SSSR.

Ed.: Kitsenko, L.; Tech. Ed.: Belen'kaya, I,

PURPOSE: This book is a handbook for students intended to help them solve practical problems on the strength of materials. It will also save the time of teachers in preparing problems for their classes.

COVERAGE: This textbook is based on problems on the strength of materials compiled by the Belorusskiy politekhnicheskiy institut, imeni Stalina (Belorussian Polytechnical Institute imeni Stalin). It consists of about 300 solutions to problems on the strength of rods, bars, frames, etc., under various combined

Card 1/4

Computation and Graphic Work on Strength of Materials

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loading conditions. Theoretical considerations and basic formulas for the completion of the analytical and graphical work, methodical instructions on the order and technique of solving the problems are given. Each problem is followed by practical instructions for the generalization of basic design requirements and by a method of checking the completed computations. In special cases, when it was considered necessary, examples of computations are given. Chapter XII contains: computation formulas and tables, mechanical characteristics of materials, values of some coefficients, tables of rolled-steel sizes, etc. The following personalities assisted in the compilation of this book: Ye.S. Bogdanov, Docent; Senior Instructors I.F. Kurovskiy, V.P. Laptev, A.G. Petrovich; L.I. Osherovich, Candidate of Technical Science; B.V. Rul', Assistant; M.I. Lyuboshits, Docent; P.Ya. Artenov, Docent. The author thanks Professors S.S. Kryukovskiy and A.A. Kravtsov, and S.V. Rabinovich, Docent for reviewing the manuscript. There are no references.

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AVAILABLE: Library of Congress

Card 4/4

IS/jmr
11-10-58

LYUBOSHITS, Moisey Il'ich; TATUR, G.K., prof., retsenzent; RUDITSYN,
M.N., retsenzent; TETERINA, L.N., red.; MORGUNOVA, G.M.,
tekhn. red.

[Geometrical characteristics of a cross section] Geometricheskie
kharakteristiki secheniya. Minsk, Izd-vo M-va vysshego, sred-
nego spetsial'nogo i professional'nogo obrazovaniya BSSR, 1962.
132 p. (MIRA 16:2)

1. Zaveduyushchiy kafedroy soprotivleniya materialov Belorus-
skogo politekhnicheskogo instituta (for Ruditsyn).
(Geometry)

RUDITSYN, Mikhail Nikolayevich; KITSENKO, L., red.; BELEN'KAYA, I.,
tekhn.red.

[Computation and graphic work on strength of materials] Raschetno-
graficheskie raboty po soprotivleniiu materialov. Minsk, Izd-vo
Belorusskogo gos.univ. im. V.I.Lenina, 1957. 227 p. (MIRA 11:7)
(Strength of materials)

RUDITSYN, M.N.; ARTEMOV, P.Ya.; LYUBOSHITS, M.I.; CHERNYAK, I., red.;
STEPANOVA, N., tekhn. red.

[Reference manual on the strength of materials] Spravochnoe
posobie po soprotivleniiu materialov. Pod obshchei red. M.N.
Ruditsyna. 2. ispr. izd. Minsk, Gos.izd-vo BSSR. Red.
nauchno-tekhn.lit-ry, 1961. 515 p. (MIRA 15:1)
(Strength of materials)

ACCESSION NR: AP4033696

P/0008/64/000/004/0103/0106

AUTHOR: Rudiuk, Andrzej (Master of engineering)

TITLE: Sound absorbing and insulating systems in aviation

SOURCE: Technika lotnicza, no. 4, 1964, 103-106

TOPIC TAGS: acoustics, sound absorption, insulation, heat insulation, vibration isolation, insulating material

ABSTRACT: This work reviews the problems of sound insulation in aircraft, and briefly describes the systems in the Li-2, Il-4, Il-18 and Convair-240 airplanes. In order to provide insulation in an aircraft with four 330-horsepower engines, investigations were conducted of insulations consisting of granules of polystyrene foam with and without epoxy resins, formed into perforated boards with a coating of thin paper or aluminum foil. An insulating board meeting the insulation requirements and other physical conditions and weighing 0.4 kg/m^2 was obtained. Orig. art. has: 11 figures and 1 table.

ASSOCIATION: none

Card 1/2

ACCESSION NR: AP 4033696

SUBMITTED: 00

DATE ACQ: 07May64

ENCL: 00

SUB CODE: MA

NO REF SOV: 000

OTHER: 000

Card 2/2

RUDNIK, Andrzej, mgr inż.

Sound absorbing and insulating structures in aviation.
Techn lotn 19 no. 4: 103-106 Ap '64.

BEROVIC, R., prof. dr.; RUDIVIC, R., dr.; PEROVIC, Lj., dr.

Infections in corticotherapy of blood diseases. Med. Glas. 18
no. 11:358-364 N '64

1. Interna klinika B Medicinskog fakulteta u Beogradu (Uprav-
nik: prof. dr. R. Berovic).

RUDY, R. I.
USSR/Physical Chemistry - Molecules. Chemical Bonds.

B-4

Abs Jour: Ref Zhur-Khimiya, No 5, 1957, 14392

Author : A. V. Babayeva, R. I. Rudy

Inst :

Title : Electron absorption spectra of complex compounds in crystalline state

Orig Pub: Zh. neorgan. Khimii, 1956, 1, No 5, 921-929

Abstract: Absorption spectra of the following compounds were measured by the method of reflection from crystalline powders: $[\text{Co}(\text{NH}_3)_5\text{Cl}]/\text{Cl}_2$; trans- $[\text{Co}(\text{NH}_3)_4\text{Cl}_2]/\text{Cl}$; $[\text{Rh}(\text{NH}_3)_5\text{Cl}]/\text{Cl}_2$; $[\text{Pt}(\text{NH}_3)_5\text{Cl}]/\text{Cl}_3$; $[\text{Pt}(\text{NH}_3)_2\text{Cl}_4]$; trans- $[\text{Pt}(\text{NH}_3)_2\text{Cl}_2]$; cis- $[\text{Pt}(\text{NH}_3)_2\text{Cl}_2]$; trans- $[\text{Pd}(\text{NH}_3)_2\text{Cl}_2]$; $\text{K}_3[\text{Co}(\text{NO}_2)_6]$; $(\text{N}_2\text{H}_4)_3[\text{RhCl}_6] \cdot \text{H}_2\text{O}$; $(\text{NH}_4)_2[\text{PdCl}_4]$; $\text{K}_2[\text{Pd}(\text{NCS})_4]$; $\text{K}_2[\text{PtCl}_4]$; $\text{K}_2[\text{Pt}(\text{CN})_4] \cdot 3\text{H}_2\text{O}$; $\text{K}_2[\text{Pt}(\text{NCS})_4]$; $\text{K}_2[\text{PtBr}_6]$; $\text{K}_2[\text{PtCl}_6]$; $(\text{NH}_4)_2[\text{IrCl}_6]$. The data was compared with the absorption spectra of the same compounds

Card 1/3

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001445920017-8

... of an ionic-
... spectra of aminoacidic compounds Co , Pt
... the position of maximum bands undergoes in sol-
... various bands of the same compound is shifted into the long
... the spectra of crystals is shifted into the long
... region, but the magnitude of the shift depends on
... the nature of the addenda; it is assumed that this is
... caused by the action of the crystalline lattices fields.
... In the spectra of crystals of isomer aminoacidic com-
... plexes ($[\text{Co}(\text{NH}_3)_4\text{Cl}_2]/\text{Cl}$, $[\text{Co}(\text{En})_2\text{Cl}_2]/\text{Cl}$, $[\text{Pt}(\text{NH}_3)_2\text{Cl}_4]$,
 $[\text{Pt}(\text{NO}_2\text{NH}_3)_2\text{Br}_2]$, $[\text{Pt}(\text{NH}_3)_2\text{Cl}_2]$, $[\text{Pt}(\text{NH}_3)_2(\text{NO}_2)_2]$,
 $[\text{Pt}\{(\text{CH}_3)_2\text{CNOH}\}_2\text{Cl}_2]$, $[\text{Pt}\{(\text{CH}_3)_2\text{CNOH}\}_2\text{Br}_2]$), the

Card 2/3

USSR/Physical Chemistry - Molecules. Chemical Bonds.

B-4

Abs Jour: Ref Zhur-Khimiya, No 5, 1957, 14392

Abstract: absorption limits from the region of long waves and the absorption maxima of trans-isomers lie in the region of lower frequencies than for cis-isomers which is explained by a greater bond strength in trans-complexes. The con- version of this order in solution is explained by the trans-influence effect in solutions, which loosens the bond between the central atom and the substitute.

RUD'KE, A. K., BORODACHEV, V. Ya., and KULIK, L.M.

"Approximate Solution of Heat Conduction Equation for
Uniformly Laminated Media."

Report submitted for the Conference on Heat and Mass Transfer,
Minsk, BSSR, June 1961.

RUDKEVICH, M.

Follow-up to N.P. Tuaev's article "Oil and gas potentials
of Central Asia." Reviewed by M.IA. Rudkevich. Geol. nefti
i gaza 6 no.1:56-57 Ja '62. (MIRA 15:1)
(Soviet Central Asia--Petroleum geology)
(Soviet Central Asia--Gas, Natural--Geology)
(Tuaev, N.P.)

RUDKEVICH, M.Ya.

Formation and distribution of gas in the Berezovo region.
Geol.nefti i gaza 3 no.11:33-38 N '59. (MIRA 13:3)

1. Tyumenskaya kompleksnaya tematicheskaya ekspeditsiya.
(Berezovo region (Tyumen Province)--Gas, Natural--Geology)

SIDORENKO, A.V., glav. red.; ROSTOVTSEV, N.N., red.; KAZARINOV,
V.P., red.; OSYKO, T.I., red.; RUDKEVICH, M.Ya., red.

[Geology of the U.S.S.R.] Geologiya SSSR. Glav. red.
A.V.Sidorenko. Moskva, Nedra. Vol.44. Pt.1. 1964. 550 p.
(MIRA 18:5)

BOGOMYAKOV, G.P.; GURARI, F.G.; KAZAKOV, D.Ye.; MIRONOV, Yu.K.; NESTEROV, I.I.;
ROZHOK, N.G.; ROVNIN, L.I.; ROSTOVTSEV, N.N.; RUDKEVICH, M.Ya.; TSIBULIN,
L.G.; ERV'YE, Yu.G.

Prospecting for oil and gas in the West Siberian Plain. Geol. nef'ti
i gaza 8 no.9:43-48 S '64. (MIRA 17:11)

1. Sibirskiy nauchno-issledovatel'skiy institut geologii, geofiziki
i mineral'nogo syr'ya, Tyumenskoye geologicheskoye upravleniye i
Novosibirskoye territorial'noye geologicheskoye upravleniye.

RUDKEVICH, N. Ya.

"The Paleography of the Lower Point of the Odessa Region," Dok. AN, 58,
No. 2, 1947

RUDKEVICH, M.Ya.

Some characteristics of the history of the Neogene of the
western Black Sea Depression. Biul.MOIP. Otd.geol. 30 no.1:
3-20 Ja-F '55. (MIRA 8:5)

(Black Sea Depression--Geology, Stratigraphic)

(Geology, Stratigraphic--Black Sea Depression)

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Nature of disjunctive dislocations in Tertiary sediments of the
Kazym area in the Ob' Valley. Sov. geol. 2 no.5:149-152 My '59.
(MIRA 12:8)

1. Tyumenskoye territorial'noye geologicheskoye upravleniye.
(Kazym Valley--Geology)

NESTEROV, Ivan Ivanovich, kand. geol.-miner. nauk; ROSTOVTSEV,
Nikolay Nikitich, doktor geol.-miner. nauk; ~~RUDKEVICH,~~
~~Maks Yakovlevich,~~ kand. geol.-miner. nauk; ~~DESHKOV,~~ S.I.,
red.; ~~RAKILIN,~~ I.T., tekhn. red.

[The petroleum of Siberia] Neft' Sibiri. Moskva, Izd-vo
"Znanie," 1963. 29 p. (Novoe v zhizni, nauke, tekhnike.
XII Seriya: Geologiya i geografiya, no.13) (MIRA 16:8)
(Siberia—Petroleum geology)

RUDKEVICH, M.Ya.; OSLOPOVSKIY, A.P.

Nature of Paleogene displacements in the Poluy River basin in
the lower Ob' Valley. Trudy SNIIGGIMS no.14:15-20 '61.
(MIRA 15:8)

(Poluy Valley (Tyumen' Province)--Geology, Structural)

RUDKEVICH, M.Ya.

Structure of the Muzhi Ural uplift. Trudy SNIIGGIMS no.14:
21-25 '61. (MIRA 15:8)
(Muzhi Urals--Geology, Structural)

GURARI, F.G.; NESTEROV, I. I.; RUDKEVICH, M.Ya.

Stratigraphy of Mesozoic and Cenozoic sediments in the West Siberian Plain. Geol. i geofiz. no.3:3-10 '62. (MIRA 15:7)

1. Sibirskiy nauchno-issledovatel'skiy institut geologii, geofiziki i mineral'nogo syr'ya, Novosibirsk.
(West Siberian Plain--Geology, Stratigraphic)

GURARI, F.G.; KAZARINOV, V.P.; KAS'YANOV, M.V.; NESTEROV, I.I.;
ROSTOVTSEV, N.N.; ROVNIN, L.I.; RUDKEVICH, M.Ya.; TROFIMUK, A.A.;
ERV'YEV, Yu.G.; MIRONOV, Yu. K.

West Siberian Plain is a new oil and gas production center of
the U.S.S.R. Geol. i geofiz. no. 10:3-15 '61. (MIRA 14:12)

1. Sibirskiy nauchno-issledovatel'skiy institut geologii, geofiziki
i mineral'nogo syr'ya, Institut geologii i geofiziki Sibirskogo
otdeleniya AN SSSR, Novosibirsk, Tyumenskoye territorial'noye
geologicheskoye upravleniye i Novosibirskoye territorial'noye
geologicheskoye upravleniye.

(West Siberian Plain—Petroleum geology)

(West Siberian—Gas, Natural)

RUDKEVICH, M.Ya.

Gas resources of the trans-Ural region. Gaz. prom. 6 no.11:3-5
'61. (MIRA 15:1)
(Siberia, Western--Gas, Natural--Geology)

RUDKEVICH, M.Ya.; YELISEYEV, B.A.

Some features of the history of the development of local uplifts
in the Turinsk salient as a basis for estimating the prospects
for finding oil and gas in them. Trudy SNIIGGIMS no. 9:5-23 '60.

(MIRA 14:7)

(Turinsk region--Petroleum geology)
(Turinsk region--Gas, Natural--Geology)

GURARI, F.G.; KAZARINOV, V.P.; MIROMOV, Yu.K.; NALIVKIN, V.D.;
NESTEROV, I.I.; OSYKO, T.I.; ROVNIN, L.I.; ROSTOVTSSEV,
N.N.; RUDKEVICH, M.Ya.; SIMONENKO, T.N.; SOKOLOV, V.N.;
TROFIMUK, A.A.; CHOCHIA, N.G.; ERV'YE, Yu.G.;
OMBYSH-KUZNETSOV, S.O., red.; LOKSHINA, O.A., tekhn.red.

[Geology and oil and gas potentials of the West Siberian
Plain, a new tank farm of the U.S.S.R.] Geologiya i nefte-
gazonosnost' Zapadno-Sibirskoi nizmennosti-novoi neftianoj
bazy SSSR. Novosibirsk, Izd-vo Sibirskogo otd-nia, 1963.
199 p. (MIRA 17:1)

GURARI, F. G.; MIRONOV, Yu. K.; NESTEROV, I. I.; ROVNIN, L. I.; ROSTOVTSKY, N. N.;
RUDKEVICH, M. Ya.; ERV'YE, Yu. G.

"Oil and gas deposits of the West Siberian lowland."

report submitted for 22nd Sess, Intl Geological Cong, New Delhi, 14-22 Dec
1964.

RUDKEVICH, M.Ya.

Classification of local uplifts in the Mesozoic and Cenozoic mantle
of the Ural Mountain portion of the West Siberian Plain. Trudy SNIIGGIMS
no.26:126-133 '62. (MIRA 16:3)
(Ural Mountain region—Geology, Structural)

RUDKEVICH, M.Ya.

Producing layer of gas and oil pools in the zone of regional oil and gas accumulation in the Siberian Ural Mountain region. Trudy SNIIGGIMS no.26: 34-39 '62. (MIRA 16:3)

(Ural Mountain region--Paleontology, Stratigraphic)

RUDKIN, A.G., mladshiy nauchnyy sotrudnik; YESIPOV, S.A., dotsent

Combustion of bark in the furnaces of sawmill boilers. Nauch.
trudy TSNIIMOD no.11:148-160 '61. (MIRA 17:9)

1. Laboratoriya mekhanizatsii skladov syr'ya i pilomaterialov
TSentral'nogo nauchno-issledovatel'skogo instituta mekhanicheskoy
obrabotki drevesiny (for Rudkin).

DOBRUNOV, G.M.; SMIRNOVA, T.A.; BLINOV, A.N.; RUDKIN, A.G., konstruktor;
MIKHEYEV, V.P., konstruktor; MAL'TSEV, B.G., konstruktor; PETROV,
V.I., konstruktor; BASINKEVICH, I.R., red. izd-va; SHIBLOVA, R.Ye.,
tekhn. red.

[Album of standard shielding and protecting devices for basic
types of sawmilling and woodworking equipment] Al'bom tipovykh
ograditel'nykh ustroystv i predokhranitel'nykh prispособlenii
dlia osnovnykh vidov lesopil'no-derevoobrabatyvaiushchego oboru-
dovaniia. Moskva, Goslesbumizdat, 1963. 51 p. (MIRA 16:9)

1. Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut me-
khanicheskoy obrabotki drevesiny.
(Woodworking machinery--Safety measures)

SHVETS, I.T. [Shvets', I.T.]; DYBAN, Ye.P. [Dyban, IE.P.]; SEL'YAVIN, G.F.
[Seliavin, H.F.]; STRADOMSKIY, M.V. [Stradoms'kyi, M.V.]; RUDKIN,
S.K.; MEL'NIK, V.P. [Mel'nyk, V.P.]

Effect of initial disturbances on the development of turbulent flow
of air through pipes. Zbir. prats' Inst. tepl. AN URSR no. 20:3-15
'60. (MIRA 14:4)

(Pipe—Fluid dynamics)

DYBAN, Ye.P.; RUDKIN, S.K.; STRADOMSKIY, M.V.; SHVETS, I.T.; EPIK, E.Ya.

Investigation of the radial component of velocity pulsations in a turbulent air flow in relatively short tubes with different levels of initial perturbation. Inzh.-fiz.zhur. 4 no.11:3-9 N '61.
(MIRA 14:10)

1. Institut teploenergetiki AN USSR, g. Kiyev.
(Aerodynamics)

L 04270-67

ACC NR: AP6013298

SOURCE CODE: UR/0413/66/000/008/0091/0091

AUTHORS: Dyban, Ye. P.; Klimenko, V. N.; Andkin, S. K.; Stradomskiy, M. V.;
Khavin, V. Yu.; Shvets, I. T.

ORG: none

TITLE: Apparatus for measuring the temperature of revolving machine details.
Class 42, No. 180833 /announced by Institute of Technical Thermophysics, AN UkrSSR
(Institut tekhnicheskoy teplofiziki AN UkrSSR)/

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 8, 1966, 91

TOPIC TAGS: temperature measurement, thermocouple, electromagnet, magnetic circuit,
MEASURING INSTRUMENT, MECHANICAL STRESS

ABSTRACT: This Author Certificate presents an apparatus for measuring the temperature of revolving machine details. The apparatus contains thermocouples fixed on the revolving detail and connected into the chain of movable electromagnets of the induction-type contactless current receivers. The fixed magnets of the latter are connected into a circuit for amplifying and registration of the measured impulses (see Fig. 1). To diminish the influence of the machine shaft displacement and the interference of the nearby electromagnets, the magnetic connections of the fixed magnets are provided with magnetic screens placed on both sides of the connections in parallel to the rotation axis. The shaft carries a spline-like

Card 1/2

UDC: 536.532.621-25

L 04270-67

ACC NR: AP6013298

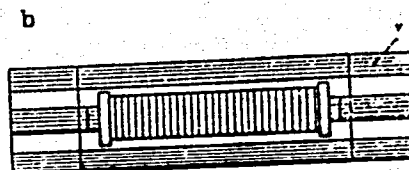
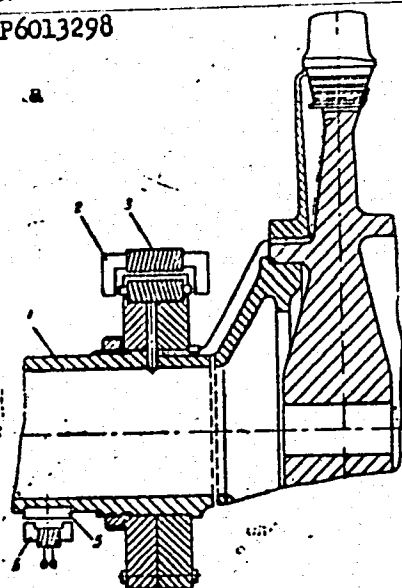


Fig. 1. 1 - machine shaft; 2 - magnetic connection; 3 - fixed electromagnets; 4 - magnetic screen; 5 - spline-like protrusion; 6 - auxiliary magnet

protrusion which, together with an auxiliary magnet, forms a system producing the directing impulses sent to the recording circuit. Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 08Feb65

Card 2/2 fv

SHVETS, I.T. [Shvets', I.T.], akademik; DYBAN, Ye.P. [Dyban, Ye.P.];
STRADOMSKIY, M.V. [Stradoms'kiy, M.V.]; RUDKIN, S.K.; ERIK, E.Ya.

Effect of the level of initial perturbations on the intensity of
heat exchange during the flow of air in short pipes. Dop. AN URSR
no.7:920-923 '61. (MIRA 14:8)

1. Institut teploenergetiki AN USSR. 2. AN USSR (for Shvets).
(Heat--Transmission)

SHVETS, I.T. [Shvets', I.T.], akademik; DYBAN, Ye.P. [Dyban, IE.P.];
STRADOMSKIY, M.V. [Stradoms'kyi, M.V.]; RUDKIN, S.K.; EPIK, E. Ya.

Investigating of radial components of velocity pulsations in
in the movement of air in short tubes. Dop.AN URSR no.5:644-647
'61. (MIRA 14:6)

1. Institut teploenergetiki AN USSR. 2. AN USSR (for Shvets).
(Air flow)

S/021/61/000/005/012/012
D215/D304

AUTHORS: Shvets', I.T., Member of AS UkrSSR, Dyban, Ye.P.,
Stradoms'kyi, M.V., Rudkin, S.K., and Epik, E.Ya.

TITLE: Investigating radial components of velocity pulsation
during the motion of air in short pipes

PERIODICAL: Akademiya nauk Ukrayins'koyi RSR. Dopovid, no. 5,
1961, 644 - 648

TEXT: The ratio of these pulsations to mean velocity is usually
considered as degree of turbulence (the so-called Karman number)
where $\sqrt{(w_r')^2}$ is the mean square value of the radial component of
velocity pulsation, w_0 the mean velocity of streaming, with res-
pect to the cross section of the pipe. The experiments were made on
a seamless, hydraulically smooth pipe with inner diameter of 51 and
length of 4000 mm. To increase initial disturbances, special tur-
bulizators were put before the pipe, in the form of perforated pla-
Card 1/3

Investigating radial components ...

S/021/61/000/005/012/012
D215/D304

tes and gratings having different diameters of openings and different coefficients β (ratio of free passage to total area). Measurements of magnitude of the pulsations were made according to the thermoanemometric method with the aid of ETA-5A set of instruments. The sensitive element was a V-shaped pickup connected with two adjacent arms of the measuring bridge. Pulsations were measured at seven longitudinal sections of the pipe and at seven points within each section. The type of variation shown here was found to be valid for all turbulizators, without any exception, also for a stream of air in a pipe without artificial disturbances. It can be assumed that the part of the pipe where the radial component of velocity pulsation is variable, is the zone of hydrodynamical stabilization of the stream. The relative length of this zone depends on geometrical characteristics of the turbulizator. Practically only one turbulizator among those tested had corresponding zone of stabilization longer than 30 diameters. Two other turbulizators were intended for calming and are not considered. The value of K_r can be found, with possible error up to 10 %, from

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Investigating radial components ...

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$$K_{r_{ser}} = \frac{210}{Re^{0.5}} \quad (2)$$

($K_{r_{ser}}$ is the mean value of K_r with respect to cross section of the pipe). The absolute value of the radial component of pulsation is

$$\sqrt{w_r'^2} = 6,45 \cdot 10^{-4} Re^{0.5}. \quad (3)$$

The attempt to find an empirical formula for the radial component of pulsation with respect to the length of stabilization zone has failed. The authors find that the determination of the radial component of pulsation alone is insufficient for the characterization of the stream in the initial zone of the pipe. There are 3 figures. ✓

ASSOCIATION: Instytut teploenerhetyky AN URSR (Institute of Heat-power Engineering, AS UkrSSR)

SUBMITTED: February 1, 1960

Card 3/3

BOZHNESTVENSKIY, D.A., kand.tekhn.nauk; RUDKINA, A.A.

Hair shampoo for washing, bleaching and dyeing. Trudy NITKHI no.1:
96-105 '62. (MIRA 17:4)

USSR

I. I. ASTROV (fn), Central Research Institute of Iron and Steel [possibly the Central Scientific Research Institute of Ferrous Metallurgy] [Possibly Ye. I. ASTROV who was Head, Central Laboratory - Metallographic Laboratory, Gorkiy Metallurgical Plant, in 1960) - "Continuous casting - present and future prospects"

MIKHAILEVICH, Georgiy, ECE Steel and Engineering Section - "Standard and modern steelmaking." Based mainly on information developed for the ECE study, "Comparison of steel-making processes," which will be distributed at the opening meeting.

RUDKON, A. K., Chief Engineer, Steel Plant imeni F. E. Dzerzhinskiy - "Sintering practice on a large-scale"

VOSKOBOYNIKOV, V. G., Central Research Institute of Iron and Steel [possibly the Central Scientific Research Institute of Ferrous Metallurgy] - "Developments at the blast furnace - top pressure, sinter practice, hydro-carbon injection, oxygen"

Report to be presented at the Inter-regional Symposium on Iron and Steel in Developing Countries, United Nations Economic and Social Council (ECOSOC), Prague Czechoslovakia, 11-16 Nov 1963.

GOZHENKO, N.A. [Gozhenko, N.A.], KUDINOVA, T.F., RUD'KO, B.F., kand. fiz.-
matem. nauk

Determining chlorine and carbon disulfide impurities in carbon
tetrachloride. Khim. prom. [Ukr.] no. 1:60-61 Ja-Mr '65. (MIRA 18:4)

RESEARCH, B.F., Land. fil. Labem. nauk; KUTIMOVA, T.P.

Determining the concentration of free chlorine in the reaction
mass. Khim. prom. [Ukr.] no.4:66-67 O.D'63. (MIRA 1716)

RUD'KO, S.M.

S/185/63/008/001/014/024
D234/D308

AUTHORS: GORBAN, I. S. G
Morban', I. S., Hrytsenko, Yu. I. and Rud'ko, S. M.
TITLE: Optical properties of admixture centers and the photoconductivity of cuprous oxide
PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 8, no. 1, 1963, 96-100

TEXT: The authors measured absorption spectra of admixtures, energy distribution in the photoluminescence spectrum and special dependences of photoconduction kinetics in Cu_2O specimens annealed under various conditions. Results are given for three typical specimens annealed in oxygen at 1) 1.0 mm Hg, 1070°C, 2) 0.002 mm Hg, 700°C, 3) 0.0010 mm Hg, 800°C. Specimen no. 1 exhibits photoconductivity at the long-wave end of the band, no. 3 has maximum photoconductivity at 7200 Å, and no. 2 has intermediate properties. The results are discussed in detail. The intensity of admixture absorption is correlated with that of short-wave photoluminescence bands, which are probably associated with oxygen

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Optical properties of ...

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vacancies. The latter cause an admixture photoconductivity in the long-wave part of the spectrum, characterized by long relaxation times. The interaction of excitons with different admixture centers is found to be selective. There are 3 figures.

ASSOCIATION: Kyivskyy derzhuniversytet im. T. H. Shevchenka
(Kiev State University im. T. H. Shevchenko)

SUBMITTED: July 2, 1962

Card 2/2

RUDKINA, A.

Six hundred and seventy-five rubles saved. Prom.koop. 13
no.5:25-26 My '59. (MIRA 12:9)

1. Starshiy inzhener Tsentral'noy nauchno-eksperimental'noy
lesokhimicheskoy laboratorii Pospromsoвета.
(Factory and trade waste)

RUDKIVS'KIY, G.P.

By Michurin methods; work of the M.E. Kashchenko Acclimatization
Garden. Visnyk AN URSR 26 no.10:18-23 0 '55. (MLRA 9:1)
(Ukraine--Acclimatization (Plants))